

# Environmental Protection Agency

§ 471.33

## SUBPART C—BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt sawed or ground with emulsions	
Chromium .....	0.015	0.006
Nickel .....	0.022	0.015
Fluoride .....	2.35	1.04

### (z) Sawing or grinding rinse.

## SUBPART C—BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of sawed or ground nickel-cobalt rinsed	
Chromium .....	0.067	0.027
Nickel .....	0.100	0.067
Fluoride .....	10.8	4.78

### (aa) Steam cleaning condensate.

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt steam cleaned	
Chromium .....	0.011	0.005
Nickel .....	0.017	0.011
Fluoride .....	1.79	0.795

(bb) *Hydrostatic tube testing and ultrasonic testing wastewater—Subpart C—BAT.* There shall be no allowance for the discharge of process wastewater pollutants.

(cc) *Degreasing spent solvents—Subpart C—BAT.* There shall be no discharge of process wastewater pollutants.

(dd) *Dye penetrant testing wastewater.*

## SUBPART C—BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt tested with dye penetrant method	
Chromium .....	0.079	0.032
Nickel .....	0.117	0.079
Fluoride .....	12.7	5.63

(ee) *Electrocoating rinse.*

## SUBPART C—BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt electrocoated	
Chromium .....	1.25	0.506
Nickel .....	1.86	1.25
Fluoride .....	201	89.0

(ff) *Miscellaneous wastewater sources.*

## SUBPART C—BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt formed	
Chromium .....	0.091	0.037
Nickel .....	0.136	0.091
Fluoride .....	14.7	6.50

[50 FR 34270, Aug. 23, 1985; 51 FR 2885, Jan. 22, 1986, as amended at 54 FR 11348, Mar. 17, 1989; 54 FR 13606, Apr. 4, 1989]

## § 471.33 New source performance standards (NSPS).

Any new source subject to this subpart must achieve the following new source performance standards (NSPS). The mass of pollutants in the nickel-cobalt forming process wastewater shall not exceed the following values:

(a) *Rolling spent neat oils—Subpart C—NSPS.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt rolled with emulsions	
Chromium .....	0.063	0.026
Nickel .....	0.094	0.063
Fluoride .....	10.1	4.49
Oil and grease .....	1.70	1.70
TSS .....	2.55	2.04
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(c) *Rolling contact cooling water.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt rolled with water	
Chromium .....	0.028	0.012
Nickel .....	0.042	0.028
Fluoride .....	4.49	1.99
Oil and grease .....	0.754	0.754
TSS .....	1.13	0.905
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(d) *Tube Reducing Spent Lubricant—Subpart C—NSPS.*

(1) There shall be no discharge of process wastewater pollutants except as provided under paragraph (d)(2) of this section.

(2) Process wastewater pollutants may be discharged, with no allowance for any pollutants discharged, provided the facility owner or operator demonstrates, on the basis of analytical methods set forth in or approved pursuant to 40 CFR part 136, that the concentrations of nitrosamine compounds in the wastewater discharged from the tube reducing process do not exceed 0.050 mg/l of N-nitrosodimethylamine, 0.020 mg/l of N-nitrosodiphenylamine, and 0.020 mg/l of N-nitrosodi-n-propylamine.

(3) The demonstration required under paragraph (d)(2) of this section shall be made once per month until the demonstration has been made for all three nitrosamine compounds for six consecutive months, after which time the demonstration may be made once per quarter. If a sample is found to contain any of the foregoing nitrosamine compounds at concentrations greater than those specified in paragraph (d)(2) of this section, the actions described in paragraph (d)(4) of this section shall be taken, and the demonstration required under paragraph (d)(2) of this section shall be made once per month until it has been made for all three nitrosamine compounds for six consecutive months.

(4) If sampling results show that any of the foregoing nitrosamine compounds is present in the process wastewater at concentrations greater than those specified in paragraph (d)(2) of this section, the facility owner or oper-

ator shall ensure that, within thirty days of receiving written notification of the sampling results, there is no further discharge of tube reducing spent lubricant wastewater until the owner or operator:

(i) Performs a subsequent analysis which demonstrates that the concentrations of the foregoing nitrosamine compounds do not exceed the levels specified in paragraph (d)(2) of this section; or

(ii) Substitutes a new tube reducing lubricant and thereafter complies with the requirements of paragraph (d)(3) of this section; or

(iii) Determines the source of the pollutant whose concentration exceeded the level specified in paragraph (d)(2) of this section and demonstrates to the satisfaction of the NPDES issuing authority that such source has been eliminated.

(5) The concentration limits specified in paragraph (d)(2) of this section apply at the point of discharge from the tube reducing process. However, sampling after the tube reducing wastewater has been commingled with other wastewaters is permitted if:

(i) Any dilution caused by the other wastewaters is taken into account in determining the appropriate (i.e., lower) allowable discharge concentration; and

(ii) An analytical method of sufficient sensitivity is used to measure the levels of each of the foregoing nitrosamine compounds in the wastewaters being sampled.

(e) *Drawing spent neat oils—Subpart C—NSPS.* There shall be no discharge of process wastewater pollutants.

(f) *Drawing spent emulsions.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt drawn with emulsions	
Chromium .....	0.036	0.015
Nickel .....	0.053	0.036
Fluoride .....	5.68	2.52
Oil and grease .....	0.954	0.954
TSS .....	1.43	1.15
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

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(g) *Extrusion spent lubricants—Subpart C—NSPS.* There shall be no discharge of process wastewater pollutants.

(h) *Extrusion press or solution heat treatment contact cooling water.*

### SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of extruded nickel-cobalt heat treated	
Chromium .....	0.031	0.013
Nickel .....	0.046	0.031
Fluoride .....	4.95	2.20
Oil and grease .....	0.832	0.832
TSS .....	1.25	0.999
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(i) *Extrusion press hydraulic fluid leakage.*

### SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt extruded	
Chromium .....	0.086	0.035
Nickel .....	0.128	0.086
Fluoride .....	13.8	6.13
Oil and grease .....	2.32	2.32
TSS .....	3.48	2.79
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(j) *Forging equipment cleaning wastewater.*

### SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt forged	
Chromium .....	0.002	0.0006
Nickel .....	0.002	0.002
Fluoride .....	0.238	0.106
Oil and grease .....	0.040	0.040
TSS .....	0.060	0.048
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(k) *Forging contact cooling water.*

### SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of forged nickel-cobalt cooled with water	
Chromium .....	0.018	0.007
Nickel .....	0.026	0.018
Fluoride .....	2.82	1.25
Oil and grease .....	0.474	0.474
TSS .....	0.711	0.569
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(l) *Forging press hydraulic fluid leakage.*

### SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt forged	
Chromium .....	0.069	0.028
Nickel .....	0.103	0.069
Fluoride .....	11.2	4.94
Oil and grease .....	1.87	1.87
TSS .....	2.81	2.25
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(m) *Forging spent lubricants—Subpart C—NSPS.* There shall be no discharge of process wastewater pollutants.

(n) *Stationary casting contact cooling water.*

### SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt cast with stationary casting methods	
Chromium .....	0.448	0.182
Nickel .....	0.666	0.448
Fluoride .....	72.0	32.0
Oil and grease .....	12.1	12.1
TSS .....	18.2	14.5
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(o) *Vacuum melting steam condensate—Subpart C—NSPS.* There shall be no allowance for the discharge of process wastewater pollutants.

(p) *Metal powder production atomization wastewater.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt metal powder atomized	
Chromium .....	0.970	0.393
Nickel .....	1.44	0.970
Fluoride .....	156	69.2
Oil and grease .....	26.2	26.2
TSS .....	39.3	31.5
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(q) *Annealing and solution heat treatment contact cooling water—Subpart C—NSPS.* There shall be no allowance for the discharge of process wastewater pollutants.

(r) *Wet air pollution control scrubber blowdown.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt formed	
Chromium .....	0.300	0.122
Nickel .....	0.450	0.300
Fluoride .....	48.2	21.4
Oil and grease .....	8.1	8.1
TSS .....	12.2	9.72
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(s) *Surface treatment spent baths.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt surface treated	
Chromium .....	0.346	0.141
Nickel .....	0.515	0.346
Fluoride .....	55.7	24.7
Oil and grease .....	9.35	9.35
TSS .....	14.1	11.2
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(t) *Surface treatment rinse.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt surface treated	
Chromium .....	0.874	0.354
Nickel .....	1.30	0.873
Fluoride .....	141	62.3
Oil and grease .....	23.6	23.6
TSS .....	35.4	28.3
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(u) *Alkaline cleaning spent baths.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt alkaline cleaned	
Chromium .....	0.013	0.005
Nickel .....	0.019	0.013
Fluoride .....	2.02	0.895
Oil and grease .....	0.339	0.339
TSS .....	0.509	0.407
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(v) *Alkaline cleaning rinse.*

## SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt alkaline cleaned	
Chromium .....	0.086	0.035
Nickel .....	.128	.086
Fluoride .....	13.9	6.15
Oil and grease .....	2.33	2.33
TSS .....	3.50	2.80
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(w) *Molten salt rinse.*

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**SUBPART C—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt treated with molten salt	
Chromium .....	0.312	0.127
Nickel .....	0.464	0.312
Fluoride .....	50.2	22.3
Oil and grease .....	8.44	8.44
TSS .....	12.7	10.1
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(x) *Ammonia rinse.*

**SUBPART C—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt treated with ammonia solution	
Chromium .....	0.006	0.002
Nickel .....	.008	.006
Fluoride .....	.881	.391
Oil and grease .....	.148	.148
TSS .....	222	178
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(y) *Sawing or grinding spent emulsions.*

**SUBPART C—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt sawed or ground	
Chromium .....	0.015	0.006
Nickel .....	.002	.015
Fluoride .....	2.35	1.04
Oil and grease .....	.394	.394
TSS .....	591	473
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(z) *Sawing or grinding rinse.*

**SUBPART C—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of sawed or ground nickel-cobalt rinsed	
Chromium .....	0.067	0.027
Nickel .....	0.100	0.067
Fluoride .....	10.8	4.78
Oil and grease .....	1.81	1.81
TSS .....	2.72	217
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(aa) *Steam cleaning condensate.*

**SUBPART C—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt steam cleaned	
Chromium .....	0.011	0.005
Nickel .....	0.017	0.011
Fluoride .....	1.79	0.795
Oil and grease .....	0.301	0.301
TSS .....	0.452	0.361
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(bb) *Hydrostatic tube testing and ultrasonic testing wastewater—Subpart C—NSPS.* There shall be no discharge of process wastewater pollutants.

(cc) *Degreasing spent solvents.—Subpart C—NSPS.* There shall be no discharge of process wastewater pollutants.

(dd) *Dye penetrant testing wastewater.*

**SUBPART C—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt tested with dye penetrant method	
Chromium .....	0.079	0.032
Nickel .....	0.117	0.079
Fluoride .....	12.7	5.63
Oil and grease .....	2.13	2.13
TSS .....	3.20	2.56
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(ee) *Electrocoating rinse.*

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SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt electrocoated	
Chromium .....	1.25	0.506
Nickel .....	1.86	1.25
Fluoride .....	201	89.0
Oil and grease .....	33.7	33.7
TSS .....	50.6	40.5
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(ff) *Miscellaneous wastewater sources.*

SUBPART C—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt formed	
Chromium .....	0.091	0.037
Nickel .....	0.136	0.091
Fluoride .....	14.7	6.50
Oil and grease .....	2.46	2.46
TSS .....	3.69	2.95
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

[50 FR 34270, Aug. 23, 1985; 51 FR 2885, Jan. 22, 1986, as amended at 54 FR 11349, Mar. 17, 1989; 54 FR 13606, Apr. 4, 1989]

**§ 471.34 Pretreatment standards for existing sources (PSES).**

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and by August 23, 1988 achieve the following pretreatment standards for existing sources (PSES). The mass of wastewater pollutants in nickel-cobalt forming wastewater introduced into a POTW shall not exceed the following values:

(a) *Rolling spent neat oils—Subpart C—PSES.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

SUBPART C—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt rolled with emulsions	
Chromium .....	0.063	0.026
Nickel .....	0.094	0.063
Fluoride .....	10.1	4.49

(c) *Rolling contact cooling water.*

SUBPART C—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt rolled with water	
Chromium .....	0.028	0.011
Nickel .....	0.042	0.028
Fluoride .....	4.49	1.99

(d) *Tube Reducing Spent Lubricant—Subpart C—PSES.*

(1) There shall be no discharge of process wastewater pollutants except as provided under paragraph (d)(2) of this section.

(2) Process wastewater pollutants may be discharged, with no allowance for any pollutants discharged, provided the facility owner or operator demonstrates, on the basis of analytical methods set forth in or approved pursuant to 40 CFR part 136, that the concentrations of nitrosamine compounds in the wastewater discharged from the tube reducing process do not exceed 0.050 mg/l of N-nitrosodimethylamine, 0.020 mg/l of N-nitrosodiphenylamine, and 0.020 mg/l of N-nitrosodi-n-propylamine.

(3) The demonstration required under paragraph (d)(2) of this section shall be made once per month until the demonstration has been made for all three nitrosamine compounds for six consecutive months, after which time the demonstration may be made once per quarter. If a sample is found to contain any of the foregoing nitrosamine compounds at concentrations greater than those specified in paragraph (d)(2) of this section, the actions described in paragraph (d)(4) of this section shall be taken, and the demonstration required under paragraph (d)(2) of this section